

Fig. 2

			Fig. 4		
415	<i>)</i>	414	2 413	412	411
	(reference)	1_r_a.exe	2/10/2000	1	403 location_region_analysis
	(reference)	ips.exe	2/21/2000	1	sdi
1	(reference)	gps.exe	2/10/2000	1	401— gps
	request handler	filename	installation date	version	context server name
400	context server table				

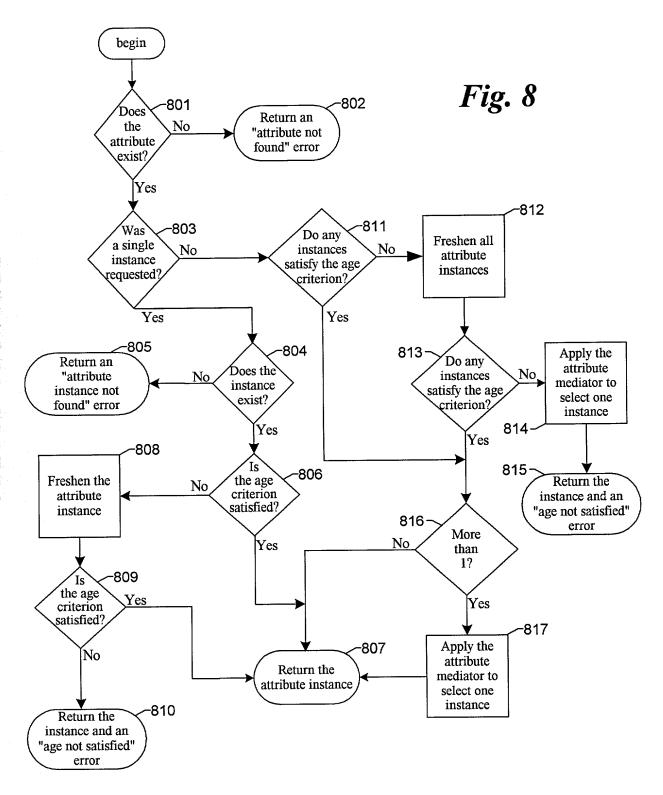
500						attribu	attribute instance table
, — <u>—</u>	attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming
501	user.location	sdā	47° 38.73° N, 122° 18.43° W	.60° 0	13:11:04.023 2/22/2000	degrees/minutes	2
505	user.location	sdi	47° 38.745° N, 122° 18.424° W	0°.021°	13:11:01.118 2/22/2000	degrees/minutes	2
503	user.elevation	sďi	22	٧.	13:11:01.118 2/22/2000	meters	1
504	user.in_region	location_region_ analysis	none	none	none	none	0
	-511	512	-513	-514	-515	-516	-517

Fig. 5

context clent name reference reference (reference) (reference) (reference) (reference) (reference) (reference) (reference) (reference)	600-		context client table
(reference) (reference) (reference))	context clent name	
(reference) (reference) (reference) (reference)	601	location_map	(reference)
(reference) -611 -612.6	600 - 700 -	distance_from_home	(reference)
Fig. 6		region analysis	(reference)
			612
			9

7007						attribut	attribute instance table
	attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming
701	user.location	gps	47° 38.73° N, 122° 18.43° W	.60°.0	13:11:04.023	degrees/minutes	2
702	user.location	ips	47° 38.745° N, 122° 18.424° W	0°.021	13:11:01.118 2/22/2000	degrees/minutes	2
703	user.elevation	ips	22	νi	13:11:01.118 2/22/2000	meters	1
704	user.in_region	location_region_ analysis	none	none	none	none	
		712	_713	714	_715	716	_717

Fig. 7



			2.7.07.07.0		*/		_
7106	user.location	Sps	1000 10 42' W	60.	27.1.01.61	conmunicación	1
			122 10.43 W		717717000		
	user location	Sui	47° 38.745' N.	0°.021'	13:11:01.118	degrees/minutes	2
905		4	122° 18.424' W		2/22/2000	•	
	user.elevation	sdi	22.25	s.	13:11:06.565	meters	I
903					2/22/2000		
	nser in region	region analysis	none	none	none	none	
904	morgar Turnoen	are frame moreon					ı
	911	912	913	914	915	916	917
			F	Fig 0			
			* *	, .o.			
				1			

condition table ~1016 logical operator | comparison value 1015 TRUE second logical 1014 parameter none 1013 first logical parameter user.in_region context client name **1012** 1012 region_analysis condition name 1011 in_region_true 1001 1000

Fig. 10

ple	ped		~1118
onitor ta	stopp	no	
CONDITION MOUNTO FADIC	condition name behavior frequency condition last trigger handler stopped evaluated reference	(reference)	3 -1117
	condition last evaluated	13:11:29.101 2/22/2000	1116
	frequency	30	11115
	behavior	TRUE or 30 FALSE	-1114
	condition name	in_region_true	_1113
	context client name	region_analysis	_1112
	condition monitor name	region_boundary_	_1111
1100 ~		1101/	

Fig. 11

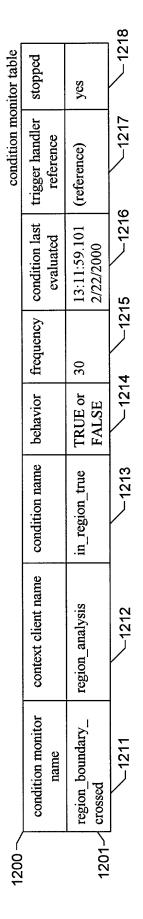


Fig. 12

	attribute request tat
attribute name	context client name
user.location	distance_from_home
user.in_region	location_map
user.location [gps]	location_region_analysis
user.elevation	location_map
1411	- 1412

Fig. 14

User.	Platform. (continued)
Desired privacy_level	CPU.
Interruptibility	Load
Speed	Speed Fig. 15
Direction	Memory.
Acceleration	Total_capacity
Availability.	Used
Cognitive_availability	Storage.
Tactile availability	Total_capacity
Manual availability	Used
Visual availability	Connectivity.
Oral availability	Connection_status
Auditory availability	Connection_speed
Proximity. <item name="" or="" place=""></item>	Connection type/device
Mood.	Connection_activity
Happiness	Power.
Sadness	Power_source
	Power level
Anger Frustration	Environment.
Confusion	People.
	Nearest
Activity.	Number present
Driving Forting	Number_close
Eating	Local.
Running	Time
Sleeping	Date
Talking	Temperature
Typing	Pressure
Walking	Wind speed
Location.	Wind direction
Place_name	Absolute humidity
Latitude	High forecast_temperature
Longitude	Low forecast temperature
Altitude	People present
Room	Ambient noise_level
Floor	Ambient_light_level
Building	Days. <pre>previous or future>.</pre>
Address	High temperature
Street	Low_temperature
City	Precipitation_type
County	Precipitation_amount
State	Place. <place name="">. (same as Environment.Local)</place>
Country	Application.
Postal_Code Destination (compage Hear Location)	Mail.
Destination. (same as User.Location.)	Available
Physiology.	New messages_waiting
Pulse	Messages waiting to be sent
Body_temperature	Phone.
Blood_pressure	Available
Respiration	In use
Person. <name id="" or="">. (same as User.)</name>	On/off
Platform.	Notification_mechanism
UI.	Call_incoming
Oral_input_device_availability	Caller_ID
Manual_input_device_availability Tactile_output_device_availability	Sound_recorder.
	Available
Visual_output_device_availability Auditory_output_device_availability	Recording
Auditory_output_device_availability	170010110

1) User Setting a) Mental Context i) Meaning ii) Cognition (1) Divided User Attention (2) Task Switching (3) Background Awareness iii) Solitude iv) Privacy (1) Desired Privacy (2) Perceived Privacy v) Social Context vi) Affect b) Physical Situation i) Body (1) Biometrics (2) Posture (3) Motion (4) Physical Encumberment (a) Senses (i) Eyes (ii) Ears (iii) Tactile (iv) Hands (v) Nose (vi) Tongue (b) Workload demands/effects (c) Interaction with computer devices (d) Interaction with people (e) Physical Health ii) Environment (1) Time/Space (2) Objects (3) Persons (a) Audience/Privacy Availability (i) Scope of Disclosure (ii) Hardware affinity for privacy

(iii) Privacy Indicator for User(iv) Privacy Indicator for

Public

(4) Ambient Interference(a) Visual(b) Audio(c) Tactile

(v) Watching Indicator(vi) Being Observed Indicator

Fig. 16 2) Computer a) Power b) Configuration i) User Input Systems (1) Hand/Haptic (a) Keyboard/Keystrokes (2) Voice/Audio (3) Eye Tracking (4) Cursors (a) Axis (b) Resolution (i) Selection (ii) Invocation (c) Accelerators ii) Output Systems (1) Visual (a) Resolution (2) Audio (a) Public/Private (3) Haptic iii) External Resources (1) I/O devices (2) Connectivity c) Data Quantity/State ii) Urgency/Importance (1) Use of Prominence iii) Modality iv) Sensitivity/Purpose (1) Privacy Issues (2) Use of Association (3) Use of Safety v) Source/Ownership (1) Types (a) User generated

(b) Other computers or people

(c) Sensor

(d) PC State

(2) Use of Association

